

# **Solar Blind Detector Using SiC Photodiode and Rugate Filter**

## **Abstract of Disclosure**

A detector includes a filter for substantially blocking photons having wavelengths greater than about 250 nm. A photodiode has a low dark current less than about 0.4  $\text{pA/cm}^2$ . A current from the photodiode is proportional to a quantity of photons having wavelengths less than or equal to about 250 nm which pass through the filter and impinge the photodiode. A processor determines the quantity of photons impinging the photodiode as a function of the current. In a preferred embodiment, the photodiode is a SiC photodiode.

## Figures